

Changes to electricity emissions factors, incandescent lighting and project-based activities



2 August 2021



Two sets of Victorian Energy Upgrades specifications have been amended to reflect changes to electricity emissions factors and incandescent lighting activities (activity 21)

We have released updated documents and will be updating the VEU registry to reflect these changes, which are effective from 1 August 2021

We have also updated our project-based activity documents to include information for projects affected by a state of emergency or a state of disaster (e.g. COVID-19 pandemic)

We have made the following updates to reflect the Department of Environment, Land, Water and Planning (DELWP) having published two sets of updated Victorian Energy Upgrades (VEU) Specifications:

- Victorian Energy Upgrades Specifications 2018 Version 9.0
- Measurement & Verification in Victorian Energy Upgrades Specifications Version 6.0

Changes to electricity emissions factors: Effective 1 August

The Victorian Energy Upgrades (VEU) program's electricity emissions factor will be updated to 0.9546 from 1 August to reflect increasing renewable energy penetration in Victoria.

Changes apply to the calculation of certificates for:

- Water heating activities (activities 1 and 3)
- Space heating and cooling activities (activities 5, 7, 9, 10, 23, and 28)
- Space conditioning activities (activities 13, 14 and 15)
- Low flow shower rose activities (activity 17)
- Lighting activities (activities 21, 27, 34, 35)





- Appliance activities (activities 22, 24, 25, 26, 30, 31, 32, 33, 36)
- Project based activities, measurement and verification method

The program's electricity emissions factors will change through gradual decreases in each year to 2025 and will be used in the greenhouse emissions reduction calculations. You can find out more about these changes on [Engage Victoria](#).

Changes to incandescent lighting activities (activity 21): Effective 1 August

From 1 August 2021, the [Victorian Energy Upgrades specifications \(version 9.0\)](#) has the following updates to incandescent lighting activities (activity 21):

- Incentives reduced by 35 per cent for all activity scenarios
- A consistent power factor multiplier used in the greenhouse gas calculations for all activity scenarios (0.80 if the power factor of the upgrade is less than 0.80, and 1.00 if the power factor of the upgrade is at least 0.80)
- The removal of lower efficacy and lifetime upgrade product categories.

The table below lists the changes applicable to each activity scenario.

Activity	Changes
21A: Incandescent GLS lamp or CFL replacement	<ul style="list-style-type: none">• Adjusted power factor multiplier applied• Increased minimum light source efficacy level to 84 lumens/watt• Increased minimum lifetime rating of 15000 hours
21B: Incandescent reflector lamp replacement	<ul style="list-style-type: none">• Adjusted power factor multiplier• Increased minimum light source efficacy level to 78 lumens/watt• Increased minimum lifetime rating of 15,000 hours



21C: 12V halogen lamp replacement	<ul style="list-style-type: none">• Adjusted power factor multiplier• Increased minimum light source efficacy level to 62 lumens/watt• Increased minimum lifetime rating of 15,000 hours
21D: 12V downlight and transformer replacement	<ul style="list-style-type: none">• Adjusted power factor multiplier• Increased minimum light source efficacy level to 58 lumens/watt• Increased minimum lifetime rating of 15,000 hours
21E: Mains voltage GU10 halogen lamp replaced with GU10 lamp	<ul style="list-style-type: none">• Adjusted power factor multiplier• Increased minimum light source efficacy level to 58 lumens/watt• Increased minimum lifetime rating of 15,000 hours
21F: Mains voltage GU10 downlight replaced with integrated downlight	<ul style="list-style-type: none">• Adjusted power factor multiplier• Increased minimum light source efficacy level to 58 lumens/watt• Increased minimum lifetime rating of 15,000 hours

Changes to the register of products and creation forms for certificates

We will be updating the register of products to end-date products that do not meet the updated requirements in the Victorian Energy Upgrades specifications (version 9.0).

The activity 21 certificate creation form will also be updated to reflect the end dating of these products. You will need to download an updated copy of the form from the [VEU registry](#) (available for download from 3 August) to submit creations for these activities undertaken on or after 1 August 2021.





Changes to project-based activities measurement and verification documents

We have updated the Measurement and verification method activity guide to include information relating to projects affected by a state of emergency or a state of disaster (such as those declared to help manage the COVID-19 pandemic) to be in line with the M&V specifications (version 6.0) and clarified the effective range rule.

The Project plan approval form for measurement and verification has also been updated to include a requirement that the M&V plan contains information on whether the project has been affected by a state of emergency or a state of disaster, including details of how the requirements in [Accounting for COVID-19 under VEU \(2021\)](#) will be or is expected to be applied.

Review our updated documents

The following updated guides and form have been updated to reflect the above changes:

- [Space conditioning, shower rose and incandescent lighting activity guide](#)
- [Lighting product application guide](#)
- [Project-based activities: measurement and verification activity guide.](#)
- [Project plan approval form - project-based activities: measurement and verification](#)

Where to get help

If you have any questions or feedback about this program update, please contact VEU support on (03) 9302 1310 or veu@esc.vic.gov.au.

